name	sequence	frequency	Seq. ID
B11	CGUGUG---AGGCAAU----------AAAACU--UAAGUCCGAAGGUAACCAAUCCUAC--ACG	65	2
G2	CGUGUG---AGGCAGU----------AAAACU--UAAGUCCGAAGGUAACCAAUCCUAC--ACG	1	3
E12	CGUGUG---AGGCAAU----------AAAACU--UAAGUCCGAAGGUAACCAAUCCUGC--ACG	1	4
B7	CGUGUG---AGGCAAU----------AAAACA--UAAGUCCGAAGGUAACCAAUCCUAC--ACG	2	5
A8	CGUGUG---AGGCAAU----------AAAACG--UAAGUCCGAAGGUAACCAAUCCUAC--ACG	2	6
B12	CGUGUG---AGGCAAU----------AAAACUUGUAAGUCCGAAGGUAACCAAUCCUAC--ACG	1	7
E3	CGUGUG---AGGCAAUA----------AAAACU--UAAGUCCGAAGGUAACCAAUCCUAC--ACG	5	8
C12	CGUGCGGUGAGGCA----------AAAAC--GUAAGACCGAAGGUAACCAUUCCUACCCACG	1	9
C11	CGUGUG---AGGUAGUAAA---------AAAAC--GUAAAUCCGAAGGUAACCAAUCCUAC--ACG	2	10
A3	CGUGUG---AGGUAGUAAAAAA------AAAAC--GUAAAUCCGAAGGUAACCAAUCCUAC--ACG	2	11
F5	CGUGUG---AGGUAGUAAAAAAA-----AAAAC--GUAAAUCCGAAGGUAACCAGUCCUAC--ACG	1	12
A12	CGUGUG---AGGUAGUAAAAAAAA----AAAAC--GUAAAUCCGAAGGUAACCAAUCCUAC--ACG	1	13
F12	CGUGUG---AGGUAGUAAAAAAAAA---AAAAC--GUAAAUCCGAAGGUAACCAAUCCUAC--ACG	2	14
G5	CGUGUG---AGGUAGUAAAAAAAAAAAAAAAAC--AUAAAUCCGAAGGUAACCAAUCCUAC--ACG	1	15
	Ins1 ----Ins2---- Ins3 Ins4		

Figure 1A

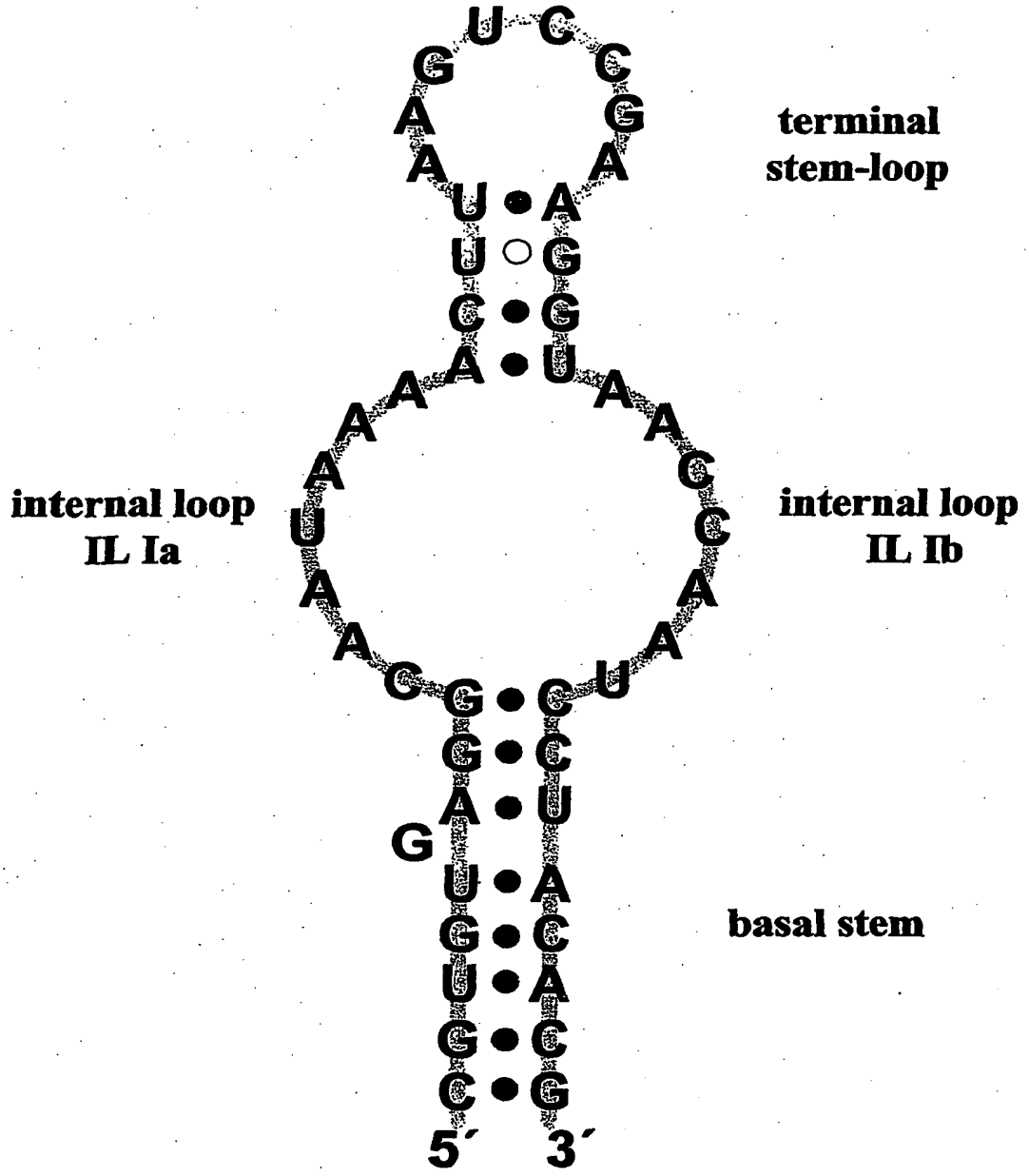
terminal
stem-loop
internal loop
IL Ia
internal loop
IL Ib
basal stem
5´
3´

Figure 1B

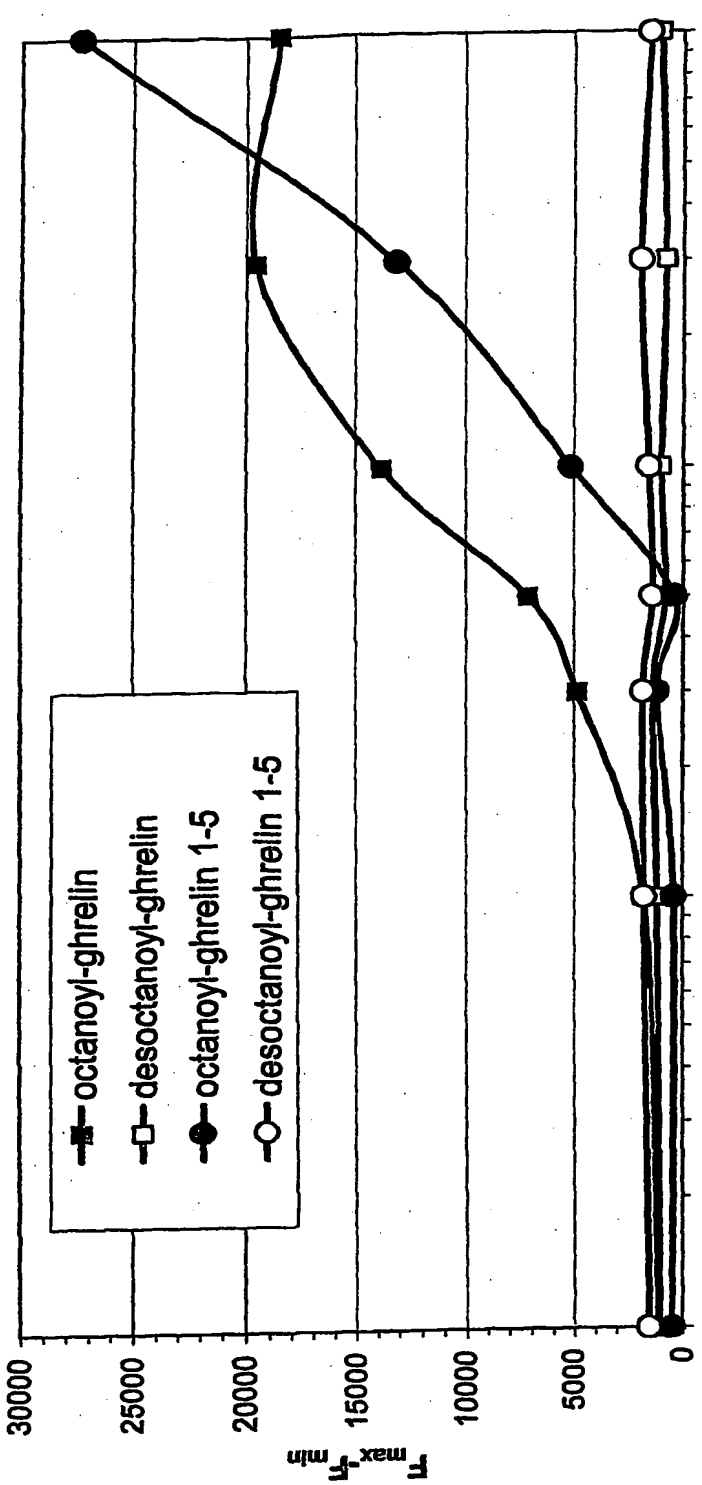
30000
25000
20000
15000
10000
5000
0
π_{max}-π_{min}
0,1
1
10
100
Ghrelin (nM)
octanoyl-ghrelin
desoctanoyl-ghrelin
octanoyl-ghrelin 1-5
desoctanoyl-ghrelin 1-5

Figure 2

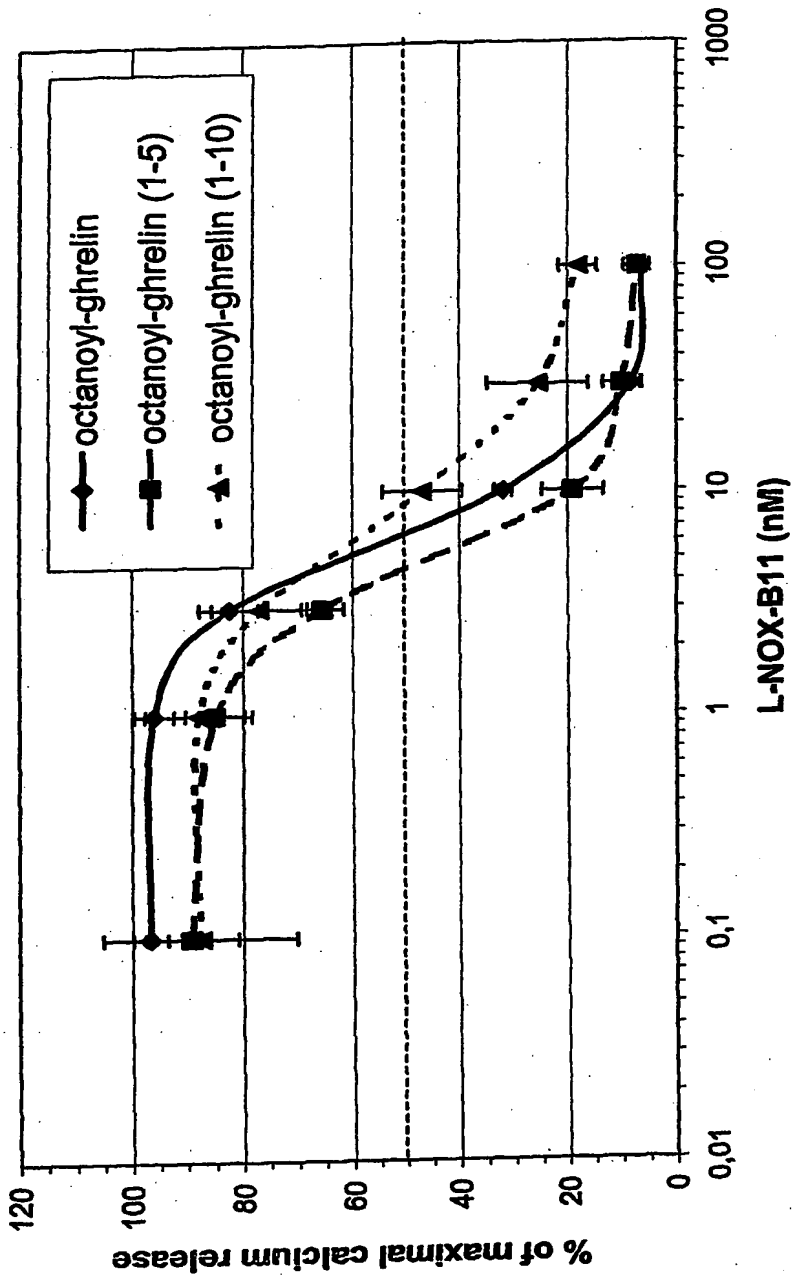
octanoyl-ghrelin
octanoyl-ghrelin (1-5)
octanoyl-ghrelin (1-10)
% of maximal calcium release
120
100
80
60
40
20
0
0,01
0,1
1
10
100
1000
L-NOX-B11 (nM)

Figure 3

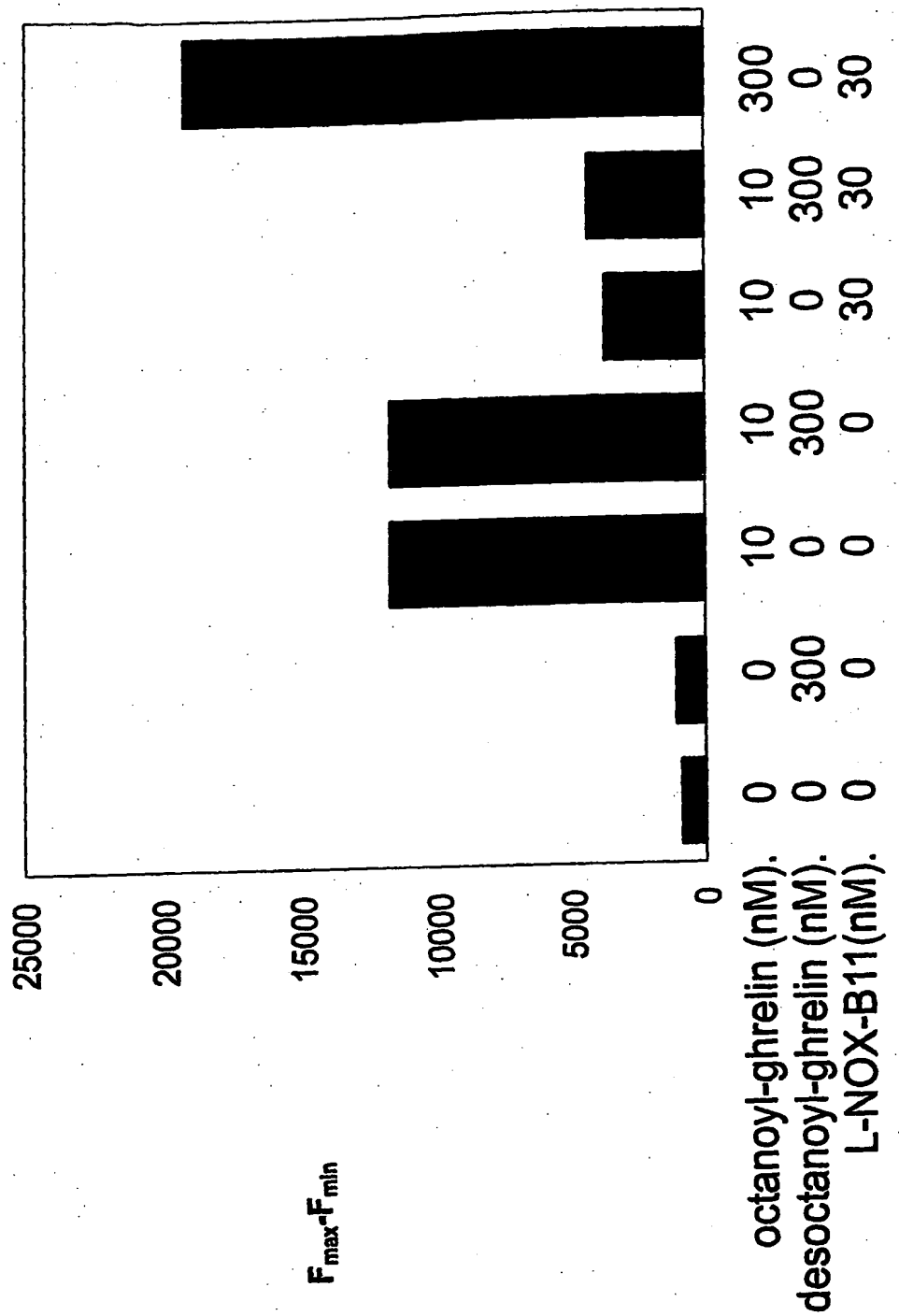
25000
20000
15000
10000
5000
0
F_{max}-F_{min}
octanoyl-ghrelin (nM).
desoctanoyl-ghrelin (nM).
L-NOX-B11(nM).
0 0 0 0 10 10 10 10 300 0
0 300 0 300 0 0 30 30 0 30
0 0 0 0 0 0 0 30 30 30

Figure 4

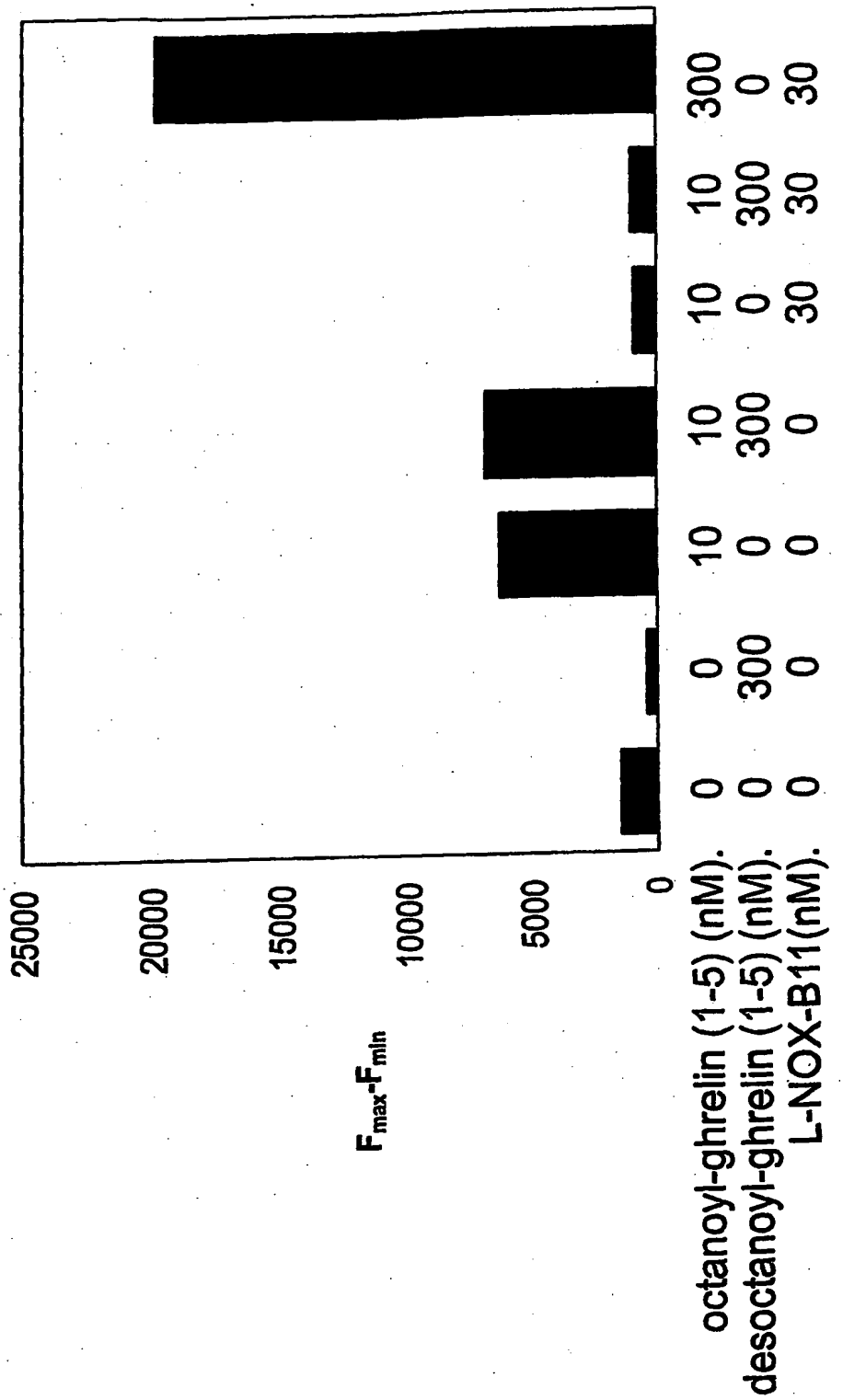
25000
20000
15000
10000
5000
0
F_{max}-F_{min}
octanoyl-ghrelin (1-5) (nM).
desoctanoyl-ghrelin (1-5) (nM).
L-NOX-B11(nM).
0 0 10 10 10 10
0 300 0 300 0 300
0 0 0 0 30 30
0 0 0 0 30 30
0 0 0 0 0 0

Figure 5

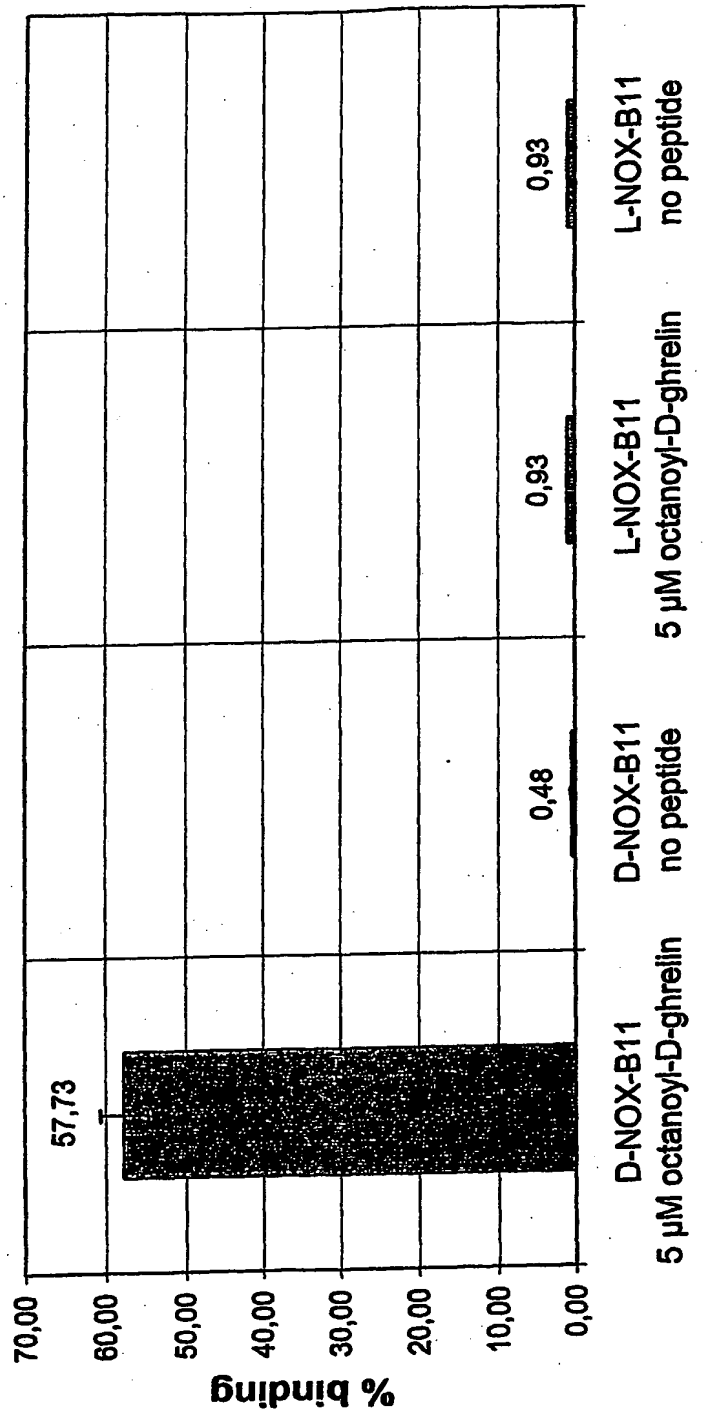
% binding
70,00
60,00
50,00
40,00
30,00
20,00
10,00
0,00
57,73
0,48
0,93
0,93
D-NOX-B11
5 µM octanoyl-D-ghrelin
D-NOX-B11
no peptide
L-NOX-B11
5 µM octanoyl-D-ghrelin
L-NOX-B11
no peptide

Figure 6